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- 1 [A concept analysis inspired greedy algorithm for test suite minimization](#)
[Sriraman Tallam, Neelam Gupta](#)
 January 2006 **PASTE '05**: Proceedings of the 6th ACM SIGPLAN-SIGSOFT workshop on software tools and engineering

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (208.43 KB)

 Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 84, Citations: 0

Software testing and retesting occurs continuously during the software development process to detect errors as early as possible and to ensure that changes to existing software are made. Test suites once developed are reused and updated ...

Keywords: concept analysis, test cases, test suite minimization, testing

Also published in:

 January 2006 **SIGSOFT Software Engineering Notes** Volume 31 Issue 1

- 2 [Model-Based Tests of Truisms](#)
[Tim Menzies, David Raffo, Siri-on Setamanit, Ying Hu, Sina Tootoonian](#)
 September 2002 **ASE '02**: Proceedings of the 17th IEEE international conference on software engineering

Publisher: IEEE Computer Society

 Full text available: [Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citations: 0

Software engineering (SE) truisms capture broadly-applicable principles of software engineering. One trouble with truisms is that such general principles may not apply in specific situations. The specificity of two SE truisms: (a) increasing the number of test cases ...

- 3 [A safe, efficient regression test selection technique](#)
[Gregg Rothermel, Mary Jean Harrold](#)
 April 1997 **Transactions on Software Engineering and Methodology**

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (730.74 KB)

 Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 323, Citations: 0


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Regression testing is an expensive but necessary maintenance activity to provide confidence that changes are correct and do not adversely affect software. A regression test selection technique chooses, ...

Keywords: regression test selection, regression testing, selective retests

4 [Communications of the ACM: Volume 51 Issue 4](#)


 April 2008 [Communications of the ACM](#)

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (4.24 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 447, Downloads (12 Months): 3020, Citations

5 [A survey of structured and object-oriented software specification methods](#)

 [Roel Wieringa](#)

December 1998 **Computing Surveys (CSUR)** , Volume 30 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (605.26 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 514, Citations

This article surveys techniques used in structured and object-oriented software specification. The techniques are classified as techniques for the specification of external decomposition. The external specification techniques ...

Keywords: languages

6 [Experience in using business scenarios to assess COTS component interfaces](#)

[Sharon Lymer](#), [WenQian Liu](#), [Steve Easterbrook](#)

October 2005 **CASCON '05: Proceedings of the 2005 conference of the Canadian Collaborative research**

Publisher: IBM Press


Full text available:  [Pdf](#) (2.99 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 79, Citations

Constructing software by integrating commercial off-the-shelf (COTS) components is particularly challenging in the IT service industry. For vendors of COTS components this is particularly challenging. To continually improve ...


Keywords: business scenario, commercial-off-the-shelf (COTS), software integration

7 [Security as a new dimension in embedded system design](#)

 [Paul Kocher](#), [Ruby Lee](#), [Gary McGraw](#), [Anand Raghunathan](#) / [Srivaths Ravi](#)

June 2004 **DAC '04: Proceedings of the 41st annual conference on Design Automation Conference**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (209.10 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 61, Downloads (12 Months): 496, Citations

The growing number of instances of breaches in information security in a compelling case for efforts towards secure electronic systems. Embedded ubiquitously used to capture, store, manipulate, and ...

Keywords: PDAs, architectures, battery life, cryptography, design, design rights management, embedded systems, performance, security, security protocols, sensors, software attacks, tamper resistance, trusted comput

8 [Understanding Tradeoffs in Software Transactional Memory](#)

Dave Dice, Nir Shavit

March 2007 **CGO '07**: Proceedings of the International Symposium on Code


Publisher: IEEE Computer Society

Full text available:  Pdf (219.87 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 159, Citations


There has been a flurry of recent work on the design of high performance hardware/software transactional memories (STMs and HyTMs). This paper discusses the decisions behind several of these state-of-the-art algorithms, adopting .

9 [Agile enterprise software development using domain-driven design and](#)

 Einar Landre, Harald Wesenberg, Jorn Olmheim

October 2007 **OOPSLA '07**: Companion to the 22nd ACM SIGPLAN conference on programming systems and applications companion

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (312.94 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 350, Citations

In this paper we present the experience gained and lessons learned when ASA, a large Oil and Gas company in Norway, applied Domain-Driven design with agile software development practices to assess ...

Keywords: PL/SQL, agile software development, domain-driven design, relational mapping, oracle, relational databases, test driven design, test

10 [On test suite composition and cost-effective regression testing](#)

 Gregg Rothermel, Sebastian Elbaum, Alexey G. Malishevsky, Praveen Kalla

July 2004 **Transactions on Software Engineering and Methodology**

Publisher: ACM  [Request Permissions](#)




Full text available:  Pdf (1.02 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 320, Citations

Regression testing is an expensive testing process used to revalidate software methodologies for improving regression testing processes have been examined. The effectiveness of these methodologies has been shown to vary ...




Keywords: Empirical studies, regression testing, test suite composition

11 [Automated consistency checking of requirements specifications](#)

-  [Constance L. Heitmeyer, Ralph D. Jeffords, Bruce G. Labaw](#)
 July 1996 **Transactions on Software Engineering and Methodology**
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (404.39 KB) Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 228, Citations



This article describes a formal analysis technique, called consistency checking, for detecting errors, such as type errors, nondeterminism, missing cases, and circular specifications. The technique ...


Keywords: application-independent properties, consistency checking, formal verification, software cost reduction methodology, tabular notations

- 12** [HOTTest: A model-based test design technique for enhanced testing applications](#)
 [Avik Sinha, Carol Smidts](#)
 July 2006 **Transactions on Software Engineering and Methodology**
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (1.40 MB) Additional Information: [full citation](#), [abstract](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 249, Citations


Model-based testing is an effective black-box test generation technique. However, model-based testing techniques, however, fail to capture implicit domain knowledge and overly rely on software artifacts such as design ...

Keywords: Haskell, HaskellDB, Test case generation, database-specific languages, domain-specific testing, model-based testing, test generation

- 13** [Queue: Volume 6 Issue 1](#)
 January 2008 Queue
Publisher: ACM
 Full text available:  Digital Edition ,  Pdf (6.04 MB) Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 112, Downloads (12 Months): 563, Citations

- 14** [Proceedings of the conference on Design, automation and test in Europe](#)
 [Donatella Sciuto](#)
 March 2008 **DATE '08: Proceedings of the conference on Design, automation and test in Europe**
Publisher: ACM
 Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citations

Welcome to the DATE 08 Conference Proceedings. DATE combines the vlsi systems design conference and Europe's leading international exhibition on design automation and test, from system level hardware and software ...

- 15** [A life-cycle perspective on online community success](#)
 [Alicia Triberri, Gendy Leroy](#)
 February 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.50 MB)


Additional Information: [full citation](#), [abstract](#), [n](#)

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Using the information systems lifecycle as a unifying framework, we rev
research and propose a sequence for incorporating success conditions d
development to increase their chances of becoming a successful commu

Keywords: Online communities, lifecycle, literature review, success fac

16 [Communications of the ACM: Volume 52 Issue 2](#)


 February 2009 [Communications of the ACM](#)

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.09 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 759, Downloads (12 Months): 2788, Citi

17 [Motivation and challenges](#)

 [Dave Kasik](#)

August 2007 **SIGGRAPH '07:** SIGGRAPH 2007 courses

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (5.32 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 265, Citati

18 [Software Testing Research: Achievements, Challenges, Dreams](#)

[Antonia Bertolino](#)

May 2007 **FOSE '07:** 2007 Future of Software Engineering

Publisher: IEEE Computer Society

Full text available:  Pdf (716.35 KB)

Additional Information: [full citation](#), [abstract](#), [n](#)

Bibliometrics: Downloads (6 Weeks): 195, Downloads (12 Months): 1936, Citi


Software engineering comprehends several disciplines devoted to preve
and to warrant adequate behaviour. Testing, the subject of this paper, i
approach in industry, but it is still largely ad hoc, expensive, ...

19 [Tutorial on agent-based modeling and simulation](#)

[Charles M. Macal](#), [Michael J. North](#)

December 2005 **WSC '05:** Proceedings of the 37th conference on Winter sir

Publisher: Winter Simulation Conference


Full text available:  Pdf (1.35 MB)

Additional Information: [full citation](#), [abstract](#), [n](#)

Bibliometrics: Downloads (6 Weeks): 159, Downloads (12 Months): 1463, Citi

Agent-based modeling and simulation (ABMS) is a new approach to mor
autonomous, interacting agents. ABMS promises to have far-reaching e
businesses use computers to support decision-making and researchers .

20 [Chemoinformatics—an introduction for computer scientists](#)

 [Nathan Brown](#)

February 2009 **Computing Surveys (CSUR)** , Volume 41 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.71 MB)

Additional Information: [full citation](#), [abstract](#), [n](#)

Bibliometrics: Downloads (6 Weeks): 372, Downloads (12 Months): 1078, Cite

Chemoinformatics is an interface science aimed primarily at discovering will ultimately result in the development of novel treatments for unmet same methods are also applied in other fields that ...

Keywords: Chemoinformatics, QSAR, chemometrics, docking, drug dis

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